

## Wichita Daily Eagle

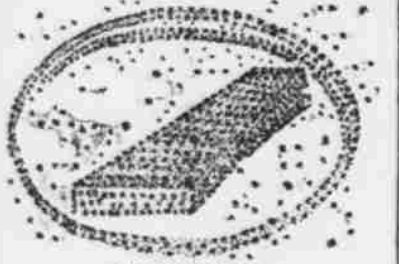
## SCIENCE AND PROGRESS.

INTERESTING KNOWLEDGE PRESENTED IN BRIEF AND POPULAR FORM.

The Wonderful Phenomenon Known as the Milky Way, Which is a Marked Feature in the Sky at this Season. What Scientists Have Thought of It.

The Galaxy or Milky Way is familiar to all readers, and although visible all the year round is perceived more plainly in August, September and October, or at the beginning and ending of that period. This zone of stars was the first to decide that it is formed of stars. To Sir John Herschel much of the information we have concerning the Milky Way is due.

In this wonderful zone of stars the center of our system, the sun, is placed.



It was supposed to be divided as in the diagram here given, the inner portion being the stars seen in their thickness, and the outer ring representing the stars viewed in the direction of the length and breadth. But afterward Herschel modified his opinions respecting the Milky Way, and Professor Nichol, among more recent astronomers, says:

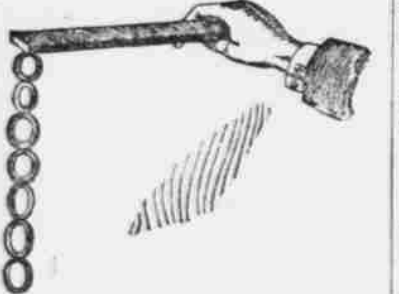
"It is only to the most careless glance that the Milky Way appears a continuous zone. Let the naked eye rest thoughtfully on any part of it, and it circumstances are favorable it will stand out rather as an accumulation of patches and streams of light in every conceivable variety of form and brightness."

The Milky Way has its greatest breadth in the "Swan," and in the "Eagle" constellation it divides itself. In the "Southern Triangle" the zone is brightest, and in the "Southern Cross" the hole or space, termed by the sailors the "W" is very distinct. It then contracts and expands, and there is in Argo another gap. Then it is lost for a space, then it branches out, and soon crosses the Equator, dilates, contracts, opens out again and so returns to the "Swan" again.

Philosophers have discovered much upon this phenomenon, but all statements must remain more or less speculative. Mr. R. Proctor has likened the Galaxy to a coiled serpent, and considers the openings in the Milky Way as evidence that the stratum of stars is limited, and that here we can see beyond it. In fact, it would appear that it is a very complicated question, and as the zone itself is "complicated with outlying branches beyond the range of our most powerful telescopes," so an actual knowledge of the Milky Way is beyond us at present. It is composed of most extraordinary aggregations of stars, which appear not only impossible to count, but each one to be independent of the other.

**Magnets and Magnetic Substances.**

Magnetic substances contain the two magnetisms, but in a neutral state; that is to say, holding each other in check by their reciprocal action; such substances are iron, steel and, to a far less extent, nickel and cobalt. There is this difference between magnetic substances and magnets: in the latter the two magnetisms in each molecule are separated, and each produces a separate effect; while in magnetic substances the magnetisms are combined and produce no effect.



**AN INVISIBLE LINE.**

According to Gannet a magnetic substance is distinguished from a magnet as follows: A magnetic substance has no poles; it successfully presented to the two ends of a magnetic needle it will attract both ends equally, while one end of a magnet would attract the one but repel the other end of the needle. Magnetic substances also have no action on each other, while magnets attract or repel, according as unlike or like poles are presented to each other.

When a magnetic substance is placed in contact with the poles of a magnet—the north pole, for instance—this acting attractively on the south magnetism of the substance, and repelling the north magnetism, it follows that in this body a separation of the two is effected, or, in other words, a true magnet is produced, for if any piece of soft iron—an iron ring, for example—be presented to a magnetized bar not merely is this ring supported, but it acquires the property of supporting the second, then this second a third, and so forth. Remove the bar, and the invisible link which unites this marvelous chain is broken, and the rings separate.

**The Moon's Influence on the Weather.**

La Nature commenting on an article on the influence of the moon on weather by Dr. G. Meyer says that although such investigations have hitherto given a negative result, the author thought that with the materials furnished by synoptic charts he might eliminate local influences, and he gave tables extending over a number of years which seem to show the influence of the moon in lowering the height of the barometer in the months of September to January at the time of full moon, and in raising it during the first quarter. The Deutsche Seewarte, which communicates the article, points out that a similar result has been independently arrived at by Capt. Feemann, one of the assistants of the institution. The same effect or any other is not perceptible in other months.

**Electric Wires and Storms.**

According to The London Electrical Review, it has been for some years the practice at the Berlin postoffice for the employees to make a note of storms and magnetic disturbances, direction of storms, length, etc., and the result has demonstrated that underground wires, without being entirely free from the influence of magnetic storms, are much less liable to disturbance than overhead ones, and on the other hand that accidents from lightning are much less serious in those towns where the overhead system is in vogue.

**It Means Nothing.**

When England sends a cruiser or a fleet of them to Vancouver it means nothing, and when the United States sends a real able bodied man-of-war toward Behring sea it means nothing. The chief difference between diplomacy and lying is that the former is honorable and the latter disgraceful.

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at 14

## ERNESTINE L. ROSE.

A Reminiscence from Little Devereux Blake.

(Special Correspondence.)

New York, Oct. 1.—The early days of the

woman's suffrage cause produced, the

Patrick Henry of the movement, was

Ernestine L. Rose. She was born in

1810, and her active years were over

before I entered the movement, but from

those who knew her in her prime I have

heard much of the romantic story of her

life. Her early home was at Pyeterkow,

Poland. She was the daughter of a Jew-

ish rabbi, so strict in his asceticism that

he practiced long fasts to the injury of

his health and temper. The earnest

child, seeing her father's wasted looks,

once asked him why he inflicted upon

himself such austerities. His reply "to

please God" startled her questioning

thoughts, and some time later she re-

nounced the faith of her forefathers, to

the distress of her family and the horror

of her friends.

Her home was no longer happy, and

after a dispute about the settlement of

her mother's estate, in which, though

she was then only a girl of 16, she plead

her own cause in court and gained her

suit, she took the small property to which

she felt herself entitled and traveled

through Europe. In England she met

the early anti-slavery leaders, and gave

herself heart and soul to the cause of

human freedom in all its aspects. While

there she married William L. Rose and

came with him to this country.

Her first public appearance here ex-

cited at the time great comment. At a

mass meeting in the old Broadway tab-

ernacle, held to discuss the question of

free schools, one of the speakers de-

viated from his theme to denounce what

he called "infidels." Mrs. Rose stood up in

her place in the front of the gallery and

called him to order. A wild scene of

excitement followed. There were cries

of "Throw her down!" "Drag her out!"

and so on, but she stood her ground, her

face, sweet voice rising above the tu-

mult, her impressive personality com-

manding respect. In a few moments

silence fell on the crowd, and her elo-

quent protest against such an attack

was listened to with respect and at her

close applause.

She was then only 26 years old, tall

and dignified in figure, with keen dark

eyes, curling black hair and a brilliant

complexion. Speaking of her as she was

in her prime The Boston Investigator

says: "She was an excellent lecturer,

liberal, eloquent, witty, and, we must

add, decidedly handsome—the Rose that

all were praising." From this period

she became a leading orator of the

anti-slavery cause and later of the

woman's suffrage agitation. I never heard

her speak but once, and she was then an

old lady and in frail health, but she

thrilled the audience by the electric

force of her words, and her dark eyes

flashed as her voice rose in the fiery

earnestness of her eloquence.

During the years of her prime she

traveled and spoke extensively. Her lab-

ors were persistent in New York state.

She addressed the legislature many

times, and it was largely owing to her

efforts that the state laws were passed

that secured to married women in New

York the right to their earnings and

their property. Before that time the

money due a woman for washing, for

school teaching or for literary work be-

longed to her husband, and he could

draw her wages and spend them without

her consent, nor could a wife hold or

inherit property—everything belonged to

her husband. The liberal laws which

we now live under are due to the tireless

exertions of this gifted woman, and

never ought the women of New York to

forget the debt of gratitude they owe to

Ernestine L. Rose.

LILLIE DEVEREUX BLAKE.

The Women of Today.

New York, Oct. 2.—Whatever may

be said of the girl of the period, and

however you may ridicule the current

"fad" of physical culture, you must ad-

mit that the woman of to-day is much

more self-reliant than the girls of her

grandmother's time.

The articles that were written about

women and woman's sphere in those

days give a queer view of femininity.

For instance, they never spoke of "a

pretty girl." Oh, no! That would have

been too flippant and irreverent. They

called her "a young and lovely female."

And the magazine writers told how "the

feminine virtues are all of the retiring

kind, and are seen through a semi-trans-

parent veil of feminine timidity and self-

postponement." And they sometimes

severely added that if men ever seemed

to admire any other kind it was "due to

bad taste and coarseness of mind."

They frequently compared their own

countrywomen to those of other nations,

and, with whatever grudging admira-

tion or outright disapproval they spoke

of the latter, they always turned their

delighted faces homeward with some

such words as these: "In our country

woman preserves that retiring and timid

delicacy most attractive in her charac-

ter, and calls forth our respectful

tenderness by reason of her graceful de-

pendence." It is still the American

woman, greatly to her credit, with the

woman of other countries; but very

different are the words with which it is

done and the reasons given for her su-

periority!

The magazine writers of those days

also discussed the question whether it

was possible to be a patriot and also a

true woman. It seemed rather a daring

question those "modest and retiring

women" asked themselves.

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